

Application No.: 08/466,554
Amendment dated March 29, 2004
Reply to Office Action of September 9, 2003.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

42. (Currently Amended) A method for screening a compound to determine its ability to alter the amount of an A β ($x \geq 41$) peptide in a cerebral spinal fluid sample comprising:

measuring a first amount of one or more soluble A β ($x \geq 41$) peptides in the cerebral spinal fluid sample of a non-human animal model that expresses amyloid- β precursor protein (APP) in the brain and processes it to the one or more soluble A β peptides;

administering the compound to the non-human animal model;

measuring a second amount of the one or more soluble A β peptides in the cerebral spinal fluid sample of the non-human animal model; and

comparing the first amount with the second amount,

the difference indicating whether the compound increases, decreases, or leaves unchanged the amount of soluble A β ($x \geq 41$) in the cerebral spinal fluid sample, wherein the amount of A β ($x \geq 41$) is measured by exposing the cerebral spinal fluid to an antibody or fragment thereof specific for an epitope of A β ($x \geq 41$) but that does not cross react with an epitope of A β ($x \leq 40$).

43. (Currently Amended) The method of claim 42, wherein the non-human animal model is a rodent model.

44. (Currently Amended) The method of claim 43, wherein the rodent model is a mouse model.

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45. (Currently Amended) The method of claim ~~42~~claim 42, wherein the non-human animal model is a transgenic animal model having an expression cassette that drives the expression of a sequence which encodes the Swedish mutation of an APP gene.

46. (Currently Amended) The method of claim ~~45~~claim 45, wherein the non-human animal model is a rodent model.

47. (Canceled)

48. (Currently Amended) The method of claim ~~42~~claim 42, wherein $A\beta(x \geq 41)$ is $A\beta(x-42)$.

49-50. (Canceled)

51. (New) The method of claim 42, wherein antibody or fragment thereof is an antibody recognizing an epitope on $A\beta$ having amino acid residues 33-42.

52. (New) The method of claim 51, wherein the antibody or fragment thereof is an antibody that will specifically bind to $A\beta(x \geq 41)$.

53. (New) The method of claim 51, wherein the antibody or fragment thereof is an antibody that will specifically bind to $A\beta(x \geq 42)$.

54. (New) The method of claim 51, wherein the antibody or fragment thereof is an antibody that will specifically bind to $A\beta(x \geq 43)$.